

GRAYSTAR[★]LLC

Ceramic Minerals and Specialty Materials

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Technical Data Sheet

Product: Brown Fused Aluminum Oxide Powders

Description: An aluminum oxide manufactured in an electric arc furnace that produces an extremely tough, high bulk density grain which is graded to exacting standards. By water classifying and chemically treating our powders can be used in the most critical of applications.

Applications: Aluminum oxide powders are used for micro blasting, precision lapping, fine grit grinding wheels, brake lining fillers, tumbling, polishing compounds, etc..

Typical Chemical Analysis:

Aluminum Oxide (Al ₂ O ₃)	94.1%
Titanium Dioxide (TiO ₂)	3.9%
Silicon Dioxide (SiO ₂)	1.15%
Iron Oxide (Fe ₂ O ₃)	0.39%
Others (MgO, CaO, Cr ₂ O ₃)	0.46%

Physical Characteristics:

Crystal Form:	Alpha-Alumina
True Density:	3.95 g/cm ³
Hardness:	Mohs 9.0
Melting Point:	2000°C
Color:	Brown – Tan

Test Methods:

Sizing: FEPA Standard 42-GB-1984-R1993
JIS R 6001-1987
Micron sizes based on Coulter Multisizer

Packaging & Shipping:

Warehousing in Bluffton, SC and Niagara Falls, NY
55 lb. paper bags
325 lb. fiber drums grade sizes F280 – F500
250 lb. fiber drums grade sizes F600 – F800
2200 lb. supersacks
Plastic pails, sealed bags, etc. for a surcharge (SC only)

Products Available:

FEPA F240 - F1200
JIS #240 - #8000
Micron/Optical sizes 50.0 um – 1 um
Custom Sizes

Certifications Available:

FEPA
JIS
Customer Specific

FEPA F Standard

Size	D3% Max.	D50%	D94% Min.
240	70	42.5-46.5	28
280	59	35.0-38.0	22
320	49	27.7-30.7	16.5
360	40	21.3-24.3	12.0
400	32	16.3-18.3	8
500	25	11.8-13.8	5
600	19	8.3-10.3	3
800	14	5.5-7.5	2
1000	10	3.7-5.3	1
1200	7	2.5-3.5	1(80%)

Manufacturers and Distributors of Abrasive Materials